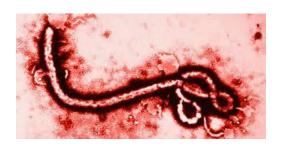
Ebola The American Experience

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Epidemiologists
Office Epidemiology and Prevention Services
Regional Ebola Trainings
June 25, 2015
Wheeling









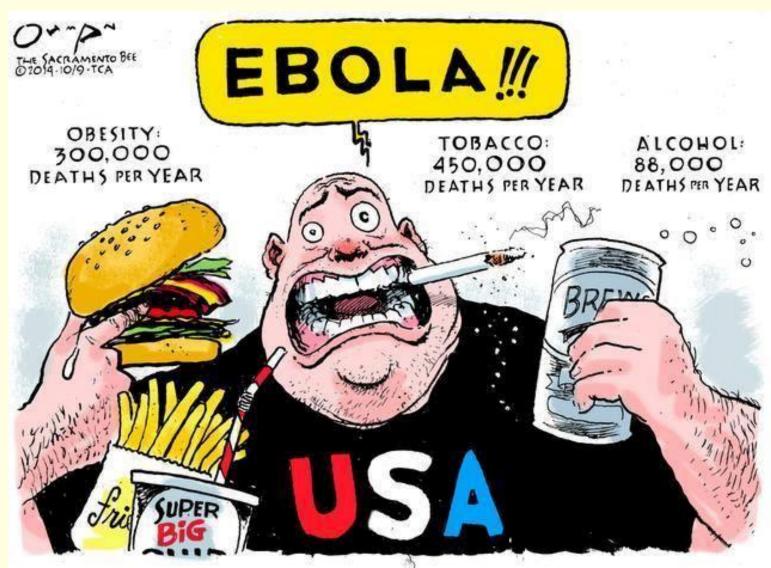
Objectives



- 1. Know the experience with imported cases of Ebola in the US.
- 2. Understand the influence of fear on public health activities in the US.
- 3. Understand US prevention and control strategies as articulated by the CDC.
- 4. Know scientific and other resources available in WV.

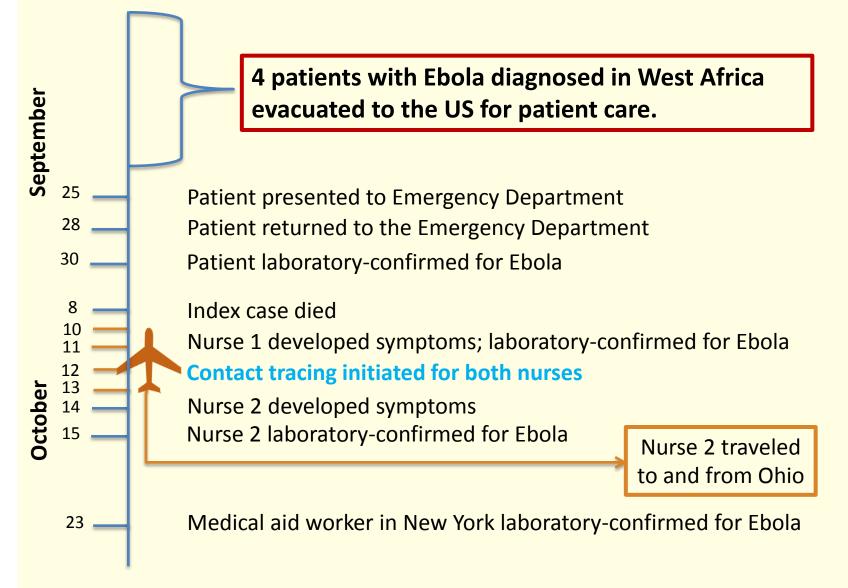
Let's Put It Into Perspective





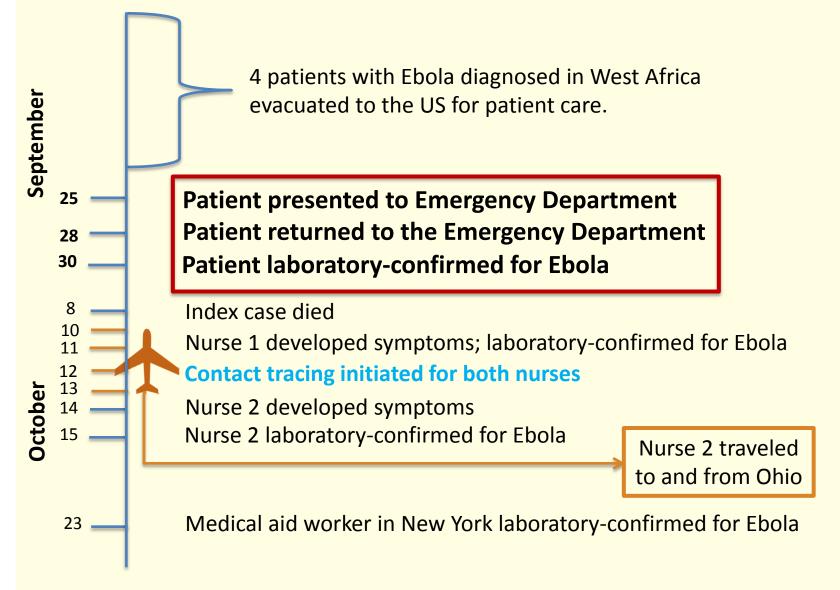
Timeline of Events





Timeline of Events





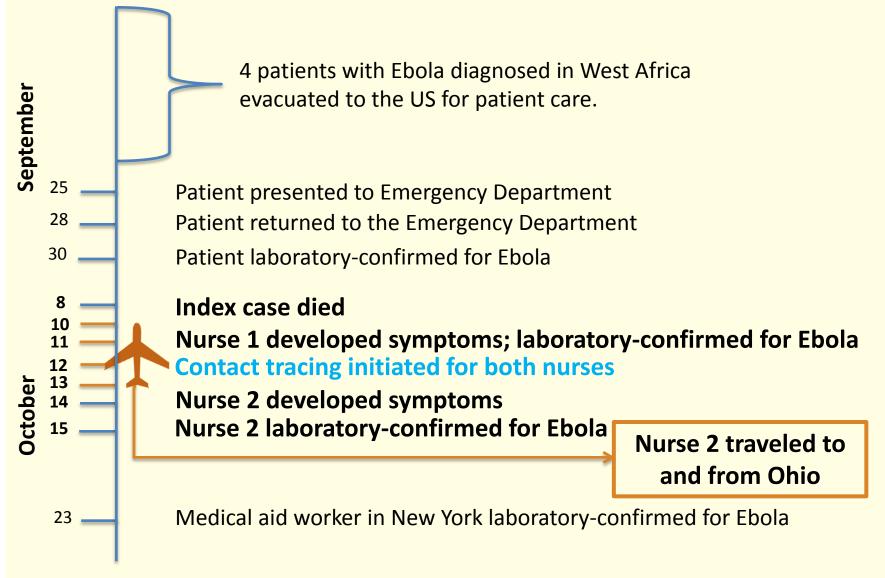
Initial Contact Investigation



- 48 contacts identified/monitored close unprotected contacts
 - ✓ Had exposure to the patient
 - ✓ Potentially contaminated environment
 - ✓ Patient specimens without proper Personal Protective Equipment
- Of the 48 contacts:
 - √ 17 Community (6 household)
 - √ 10 Emergency Medical Services
 - √ 21 Healthcare workers
- Index case died October 8

Timeline of Events





Contact Tracing for Cases 2 and 3



- October 12 Contact tracing began
 - ✓ Had exposure to any 3 Ebola cases
 - ✓ Exposure to patient specimens
 - ✓ Potentially contaminated environment
- Of the 150 contacts:
 - √ 147 healthcare workers
 - √ 3 household contacts
- Cases 2 and 3 fully recovered
- All 150 contacts completed their 21 day monitoring-no additional cases found

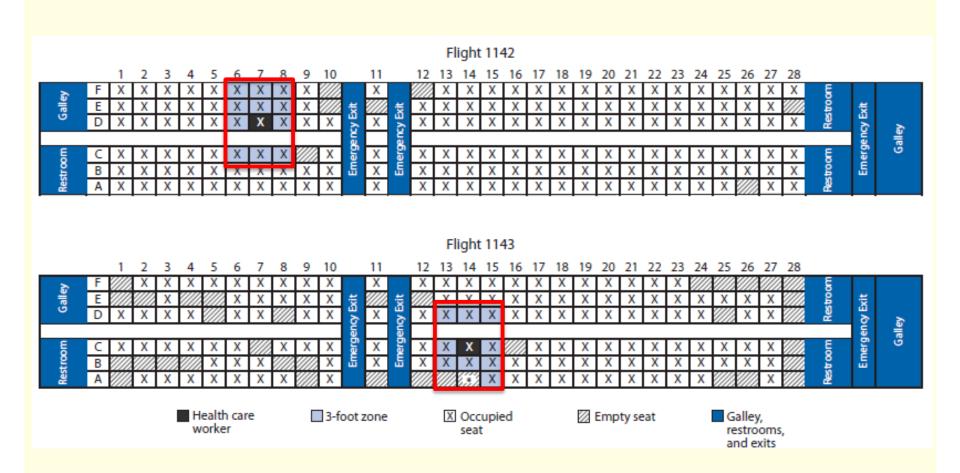
Airline Investigation



- Case 3 traveled by commercial airline
 - ✓ October 10-13
 - ✓ Dallas, Texas to Cleveland, Ohio
 - ✓ Contact investigation for airlines
- Airline investigation
 - ✓ Brief interview to determine risk
 - ✓ Previous recommendations more conservative

Seating Charts for Flights





Categorization of Contacts



	Some Risk (3 foot zone)	Uncertain Risk (outside 3 foot zone)
Interview	X	X
Twice Daily Monitor for Fever and Symptoms	X (report daily to Local Health Department)	X (only report symptoms)
Quarantine	X	
Do Not Board List	X	

Pause for Thought



What do you think are the lessons learned from this Ebola virus disease cluster in the United States?

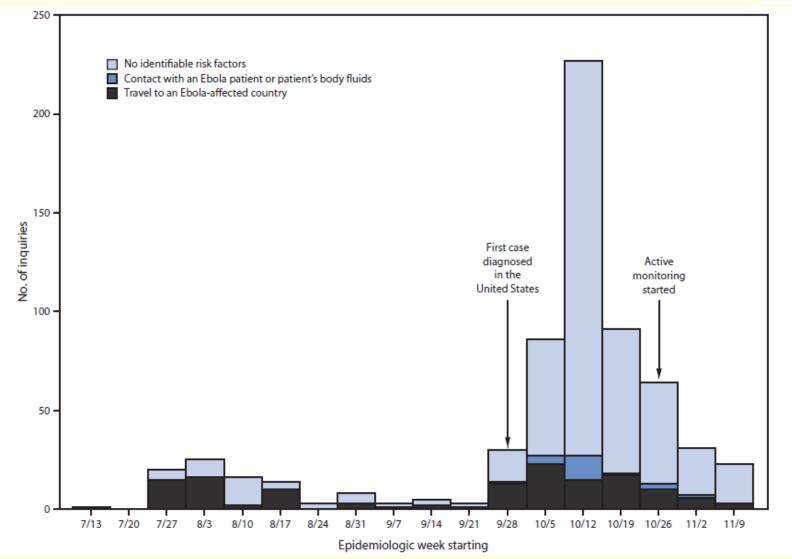
Lessons Learned



- Identify patients with Ebola at presentation to minimize potential exposures.
- Rapidly identify contacts of Ebola patients and evaluate their level of exposure risk.
- Assess infection control practices (rigorous and repeat training)
- Develop protocols to safely transport suspected Ebola patients to hospitals and safely evaluate these patients within a hospital.
- Designate facilities to care for patients with confirmed Ebola.

Inquires to CDC by Epidemiologic Risk Factor





Clinical Inquiries Regarding Ebola Virus Disease Received by CDC — United States, July 9–November 15, 2014 (Centers for Disease Control and Prevention)

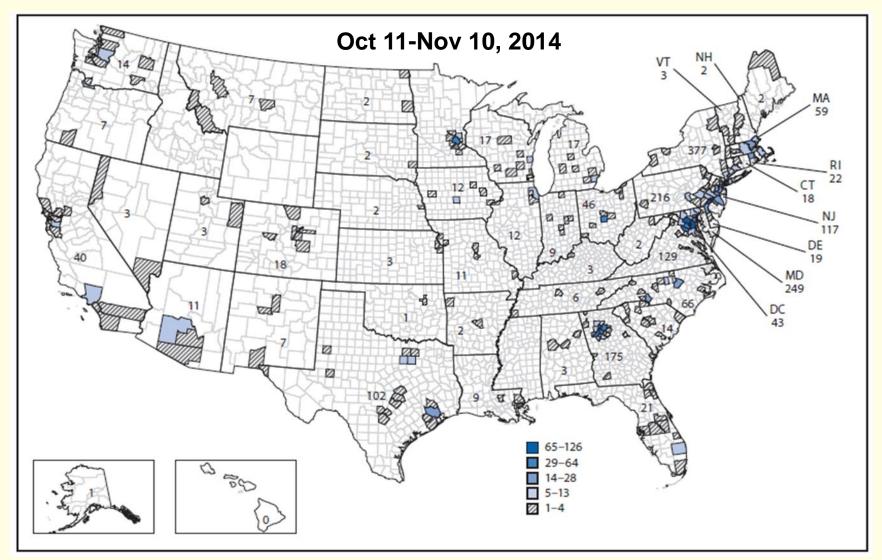
Entry Screening Program





Travelers Screened (N=1,986)





Assessment of Risk Among Travelers

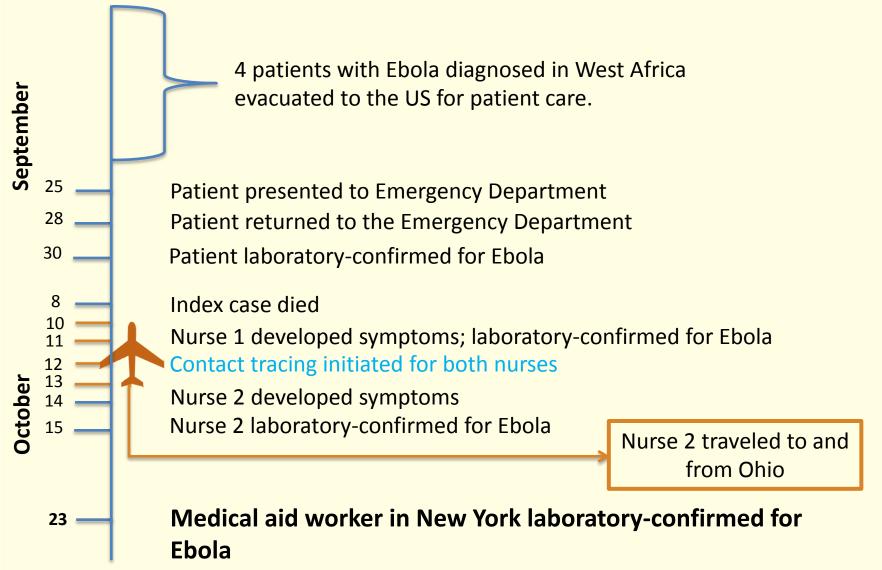


Travelers Screened by CDC at US Airports, October 11-November 10, 2014 (N=1,986)

Risk Category	Number of Travelers
High	0
Some	16
Low (but not zero)	70
Total	86

Timeline of Events





CDC Strategies for Prevention and Control



- 1. Returned traveler screening and monitoring
- 2. Early recognition and isolation
- Appropriating infection control and Personal Protective Equipment
 - Emergency Medical Services
 - Healthcare facilities
 - Mortuary services
- 4. Laboratory diagnosis
- 5. Contact tracing and contact surveillance

Resources



MMWR Ebola Reports

http://www.cdc.gov/mmwr/ebola_reports.html

CDC website

http://www.cdc.gov/vhf/ebola/

DIDE Website



www.dide.wv.gov



Ebola virus disease is a serious illness caused by one of four strains of virus: Zaire, Tai Forest, Sudan, and Bundibugyo. Ebola can cause disease in humans and other mammals.

For more frequently asked questions, click here.



Image from bbc.co.uk

INFORMATION FOR THE PUBLIC

INFORMATION FOR HEALTH PROFESSIONALS

INFORMATION FOR LOCAL HEALTH



infographic identifying the differences between Ebola and the Flu.

Click Here for Resources for Parents, Schools, and **Pediatric Healthcare Professionals**

Information related to children and Ebola, Includes information from the American Academy of Pediatrics on how to discuss Ebola with children and guidance for pediatricians and OB/GYNs.

Evaluation



"THE AMERICAN EXPERIENCE" PRESENTATION EVALUATION.

THANK YOU!

Contact



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